Index of Subjects—Volume 18

Arid zone soil control, 173

Blackslopes, ii (No. 4)
Basement Complex, Africa, 13, 25, 35
Book reviews, 307, 481
Borehole packers, 181

Conductivity, ground, 139
Conductivity, thermal, 437

Discussion on geology, Singapore, 291
Dock floor geology, 391

Gas storage caverns, ii (No. 1)
Geology in Singapore, 291
Geophysics for fracture analysis, 413
Geotechnical aspects of M25, 149
Granite, weathered, 199
Groundwater abstraction, 13, 25
Groundwater assessment, 47
Groundwater in Chalk, 261
Groundwater development funding, 3

Hydrogeochemistry, Middle East, 101
Hydrogeochemistry, Lower Greensand, 443

Landslips on A40, Monmouth, 207

Microcomputer:
  borehole records, 357, 381
  field measurements, 327, 363
  general, 311
  laboratory testing, 345, 363
  seismic, 335, 369
  slope stability, 353

Photographic features, ii (No. 1), ii (No. 3), ii (No. 4)
Proceedings, Hydrogeological Group, 99, 485

Quarrying, Port Stanley, 253

Rock pressure coefficient, 195

Sabkha, 101, 129, 391
Sackung deformation, 287
Salina, 129
Salt attack, 101
Sand (Aeolian) control, 237
Seismic spectroscopy, 459
Slug tests, 161
Soil water/slope stability model, 225
Stope, ii (No. 3)

Tracers (dye) in landfill, 275
Tunnel, 149

Volcanic hazards, 79

Well design, 13, 25, 63

Index of Localities

Africa, 13, 25, 35
Altnabreac, Scotland, 161, 413

Ben Attow, Scotland, 287

Chipping Sodbury, England, 353
Cornwall, England, ii (No. 3), 335

Derbyshire, England, 139
Dorset, England, 139
Dubai, 101, 391

Falkland Islands, 253

Gloucestershire, England, 275

Hong Kong, 199, 225, ii (No. 4)

Indonesia, 79
Indus River, 63

Java, 47

Lancashire, England, 181
London, England, 149

Malawi, 13
Monmouth, Wales, 207

New South Wales, Australia, 173
Norfolk, England, 261
North West England, 181

Pakistan, 63

Saudi Arabia, 129, 237
Singapore, 291
South Killingholme, England, ii (No. 1)
Suffolk, England, 139
Surrey, England, 139

Index of Authors

Anderson, M. G., 225
Akpokodje, E. G., 173
Atkinson, M. S., 345
Atkinson, T. C., 261

Bakiewicz, W., 63
Baxter, K. M., 1
Black, J. H., 161
Brassington, F. C., 181
Bryan, I. R., 459

Chilton, P. J., 13
Clark, L., 25
Clarke, M. C. G., 79
Coatsworth, A. M., 327, 345
Corke, D. J., 327
Cornwell, J. D., 139

Early, K. R., 207
Eldred, P. J. L., 345

Finn, P. S., 327
Fookes, P. G., 101
French, W. J., 101

Green, A. D., 369
Grey, D. R. C., 13

Haigh, R. N., 369
Hill, J. J., 311, 369, 459
Holmes, G., 287
Howat, M. D., 199
Howes, S., 225
Howland, A. F., 357

Jarvis, J. J., 287, 353
Jones, M. J., 35
Jordan, P. G., 207

Lin-Hua, Song, 261
Lloyd, J. W., 47, 381
Lovell, M. A., 437

McCann, D. M., 413
McEwen, T. J., 413
McNair, M. A., 363
Mathers, S. J., 139
Middleton, R., 369, 459
Milne, D. M., 63
Morgan-Jones, M., 443
Morton, K., 291

New, B. M., 335
Newman, R. L., 149
Niaz, S. M., 3

Pattle, A. D., 63
Pim, R. H., 47
Podolski, N., 357
Price Jones, A., 327

Rice, S. M. M., 101
Rosenbaum, M. S., 253, 353

Sayer, P., 291
Shedlock, S., 413
Smart, P. L., 275
Smith-Carington, A. K., 13
Stipho, A. S., 129
Suryo, I., 79
Suwara, A., 47

Walters, M., 381
Walthall, S., 181
Warren, C. D., 391
Watkins, M. D., 47
Watson, A., 237
Whiteside, P., 195
Wright, E. P., 13

Young, R. P., 309, 311, 369, 459

Zalasiewicz, J. A., 139

Printed in Northern Ireland at The Universities Press (Belfast) Ltd

Contents of Volume 18

No. 1

Photographic feature: Liquified petroleum gas caverns at South Killingholme . . ii

Groundwater development in Third World countries
(Hydrogeology Group meeting in October 1980)

K. M. Baxter: Introduction 1

Sadiq M. Niaz: International funding of groundwater development schemes . . 3

D. R. C. Grey, P. J. Chilton, A. K. Smith-Carington & E. P. Wright: The expanding role of the hydrogeologist in the provision of village water supplies: an African perspective 13

Lewis Clark: Groundwater abstraction from Basement Complex areas of Africa 25

M. J. Jones: The weathered zone aquifers of the basement complex areas of Africa 35

J. W. Lloyd, R. H. Pim, M. D. Watkins & A. Suwara: The problems of groundwater assessment in the volcanic-sedimentary environment of Central Java 47

W. Bakiewicz, D. M. Milne & A. D. Pattle: Development of public tubewell designs in Pakistan 63

I. Suryo & M. C. G. Clarke: The occurrence and mitigation of volcanic hazards in Indonesia as exemplified at the Mount Merapi, Mount Kelut and Mount Galunggung volcanoes 79

Proceedings of Hydrogeological Group Meeting: Tracers 99

No. 2

P. G. Fookes, W. J. French & S. M. M. Rice: The influence of ground and groundwater geochemistry on construction in the Middle East 101

A. S. Stipho: On the engineering properties of salina soil 129

J. A. Zalasiewicz, S. J. Mathers & J. D. Cornwell: The application of ground conductivity measurements to geological mapping 139

R. L. Newman: Geological and geotechnical considerations, associated with some sections of the M25 construction 149

John H. Black: The interpretation of slug tests in fissured rocks 161

E. G. Akpokodje: The stabilization of some arid zone soils with cement and lime 173

F. C. Brassington & S. Walthall: Field techniques using boreholes packers in hydrogeological investigations 181

P. Whiteside: Technical Note: Rock pressure coefficient for design of rock retaining structures 195

No. 3

Photographic feature: Relaxation of rock above old workings, Wheal Jane Mine, Cornwall ii

M. D. Howat: Completely weathered granite—soil or rock? 199

K. R. Early & P. G. Jordan: Some landslipping encountered during construction of the A40 near Monmouth 207

M. G. Anderson & S. Howes: Development and application of a combined soil water–slope stability model 225

A. Watson: The control of wind blown sand and moving dunes: a review of the methods of sand control in deserts, with observations from Saudi Arabia . . 237

M. S. Rosenbaum: Engineering geology related to quarrying at Port Stanley, Falkland Islands 253

Song Lin-Hua & T. C. Atkinson: Dissolved iron in chalk groundwaters from Norfolk, England 261

P. L. Smart: Applications of fluorescent dye tracers in the planning and hydrological appraisal of sanitary landfills 275

G. Holmes & J. J. Jarvis: Technical Note: Large-scale toppling within a sackung type deformation at Ben Attow, Scotland 287

K. Morton & P. Sayer: *Discussion* on 'A review of geology and engineering geology in Singapore'; *reply* by J. Pitts 291

Proceedings of the Engineering Group of the Geological Society, 1983–84 . . . 295

Notices of meetings: 21st Regional Conference of the Engineering Group: Groundwater in Engineering Geology 303

U.S. National Committee on Rock Mechanics Symposium, University of Alabama 305

Book reviews 307

No. 4

Photographic feature: Castle Peak Power Station, Hong Kong—Backslopes . . . ii

Applications of microcomputers in engineering geology

R. P. Young: Introductory Note 309

J. J. HILL & R. P. YOUNG: Microprocessors and microcomputers: a review and implications for engineering geologists 311

A. M. COATSWORTH, D. J. CORKE, P. S. FINN & PRICE JONES: Field measurements with microcomputers in soils and rocks 327

B. M. NEW: An example of tomographic and Fourier microcomputer processing of seismic records 335

M. S. ATKINSON, A. M. COATSWORTH, P. J. L. ELDRED: Microcomputers in laboratory testing and the assessment of site investigation data 345

M. S. ROSENBAUM & J. JARVIS: Probabilistic slope stability analysis using a microcomputer 353

A. F. HOWLAND & N. PODOLSKI: A microcomputer based system to provide report quality borehole records 357

M. A. MCNAIR: The application of microcomputer technology to the automation of physical testing in engineering geology 363

R. P. YOUNG, J. J. HILL, A. D. GREEN, R. N. HAIGH & R. MIDDLETON: Microcomputer based seismic instrumentation systems 369

M. WALTERS & J. W. LLOYD: The use of a microcomputer for recording and analysis of borehole logging data in hydrogeological investigations 381

C. D. WARREN: Dubai Dry Dock: Engineering significance of dock floor geology 391

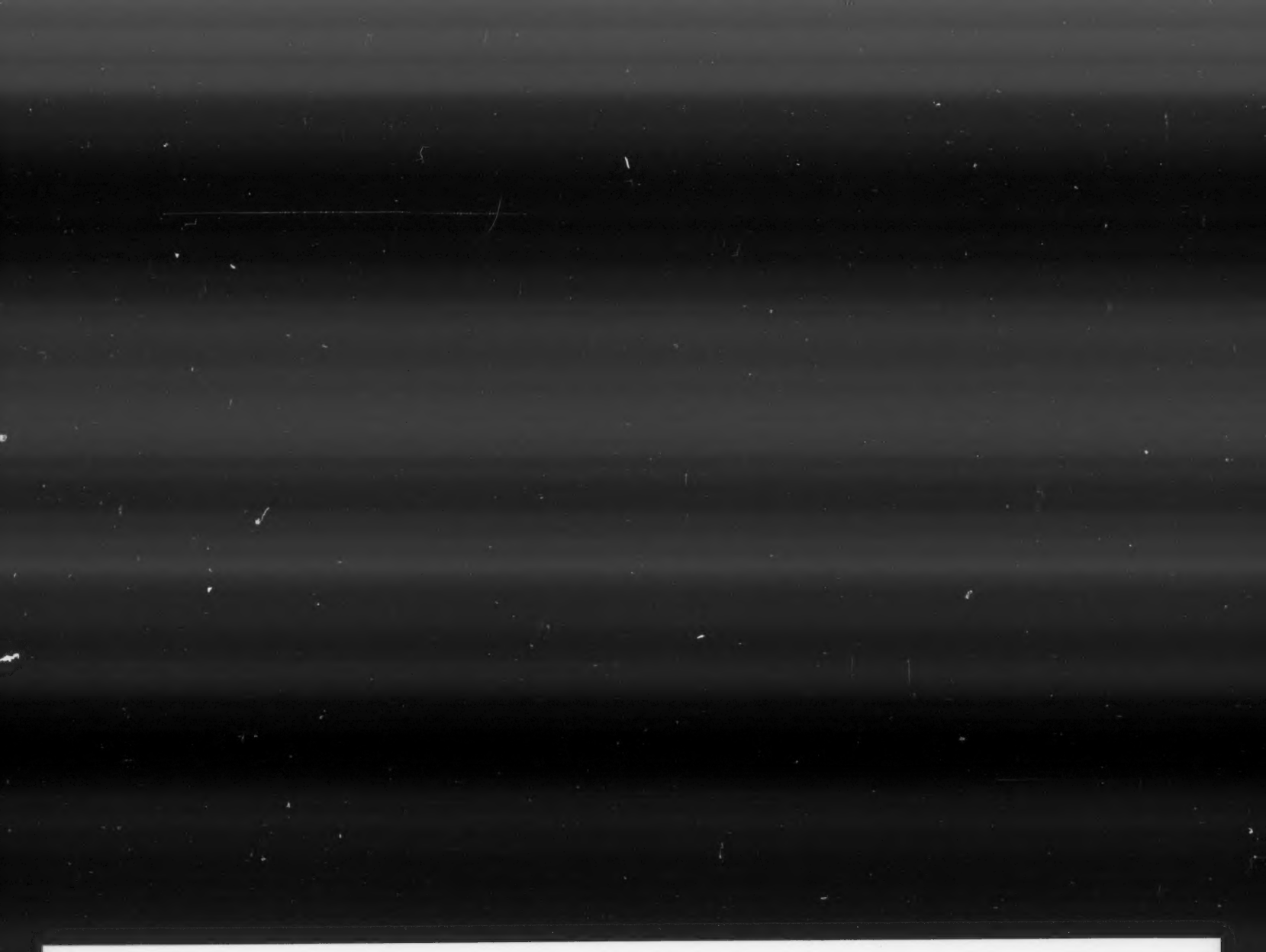
T. J. MCEWEN, D. M. MCCANN, S. SHEDLOCK: Fracture analysis from borehole geophysical techniques in crystalline rocks 413

M. A. LOVELL: Thermal conductivities of marine sediments 437

M. MORGAN-JONES: The hydrogeochemistry of the Lower Greensand aquifers south of London, England 443

R. P. YOUNG, J. J. HILL, I. R. BRYAN & R. MIDDLETON: Seismic spectroscopy in fracture characterization 459

Book reviews 481

Proceedings of 'Exotic Uses of Aquifers' meeting of the Hydrogeological Group, October 1984 485

Notices 487